

CLAIMS

1. A method for extracting a plurality of analytes from a sample, comprising the steps of:
 providing a plurality of extraction probes capable of adsorbing an analyte, wherein said
 5 extraction probes are comprised of a solid support and an extraction phase;
 contacting said extraction probe with a sample suspected of comprising at least one of the
 analytes; and
 separation of said extraction probe from the sample.

10 2. The method of claim 1, wherein said solid support is a microparticle.

3. The method of claim 2 wherein said microparticle is a nanobarcode.

4. The method of claim 1, wherein said solid support is a bead.

5. The method of claim 1 wherein said solid support is a fiber.

6. The method of claim 1 wherein said extraction phase is combinatorially-derived.

20 7. The method of claim 1, wherein said extraction phase is a polymer.

8. The method of claim 1, further comprising the step of detecting for at least one analyte
 extracted from said sample.

25 9. A method for simultaneously conducting a plurality of assays to a plurality of analytes
 comprising:

contacting a solution that may contain the analytes with a plurality of extraction probes,
 wherein each extraction probe comprises a solid support and an extraction phase, and wherein
 the nature of each extraction phase is encoded by the solid support to which it is associated; and
 30 detecting for the presence of at least one analyte associated with said extraction probes.

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10. A method for extracting a plurality of analytes from a sample, comprising the steps of:
providing a position-addressable array of extraction probes, such probes comprised of a
solid support and an extraction phase;

5 providing an array of capillaries addressable by the array of extraction probes, the
capillaries containing aliquots of the sample;

contacting the array of extraction probes with the array of capillary tubes such that the
extraction probes are positioned within the capillary tubes;

separating the array of extraction probes from the array of capillaries, such as that the
extraction probes are separated from the sample.

10 11. The method of claim 10 wherein each capillary tube comprises a different sample.

12. A plurality of extraction probes, comprised of a solid support and an extraction phase,
wherein said extraction probes comprise of a plurality of different types of extraction phases.

15 13. The plurality of extraction probes of claim 12 wherein the nature of the extraction phase
is encoded by the solid support.

20 14. The plurality of extraction probes of claim 13 wherein the solid support is a
microparticle.

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